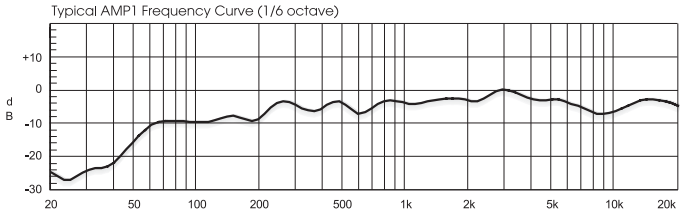
World Leader •In-Rack• Audio & Video Monitoring

October 12, 2004

WOHLER AMP1A-30

Analog 1 Stereo Channel Self-Powered Speaker System with Professional Level Metering



Features:

Full Fidelity Audio Monitoring in only 1U of rack space
2 Balanced Analog Inputs with Loop-Through (1 Stereo)
2 Large Segment 30 Segment Tri-Color LED Bargraphs
Ideal for Distance Viewing
Simultaneous VU (bar) and PPM (dot) Bargraph Display Ballistics
Simultaneous Visual Monitoring of all Channels
Audible Indication of Phase/Polarity Problems
Custom Variations of Standard Scales
and/or Color Masks Available on Request
Industry Leading Wide Dynamic Range
1 dB Midscale Resolution
Powerful 98dB SPL at 2 feet (0.6m)
Premium Quality Drivers & Power Amplifiers
Extended Frequency Response and Low Distortion
Focused Sound, Reduces Adjacent Bay Crosstalk
Thorough Magnetic Shielding for Placement next to Video Monitors
Headphone Jack, Mutes Speakers
Blowout Proof Speakers
Quick and Simple Installation

The AMP1A-30 provides self-powered, full-fidelity stereo audio monitoring of 2 analog channels (1 stereo channel) and large segment LEDs with 30 segments - optimized for viewing from a distance, in the smallest rack space possible. This unit contains four high performance transducers driven by three power amplifiers: one amplifier/driver combination handles midrange and high frequency information in stereo, while the second handles summed low frequency information below the 500 Hz crossover point.

The unique design allows for simultaneous visual monitoring of all channels and provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk.

The level meters are now available with a choice of BBC, DIN, Nordic and VU scales and "PPM Only" has also been added to the user selectable options. These changes were requested by our customers; if you don't see what you are looking for please do contact us and we'll be glad to help.

Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

Our unique tri-color LED design means we can offer an almost unlimited variety of options such as Phase Correlation, Peak Hold, Loudness, Sum & Difference, and alternate scales & color mappings. The standard display mode is set as a single segment PPM "dot" above a VU bar; each segment's color is fixed according to its position on the scale. Level calibration may be set via dip switches to select one of four different calibration levels.

The AMP1A-30 is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP1A-30 is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

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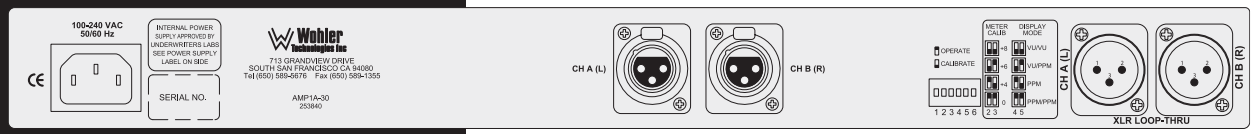
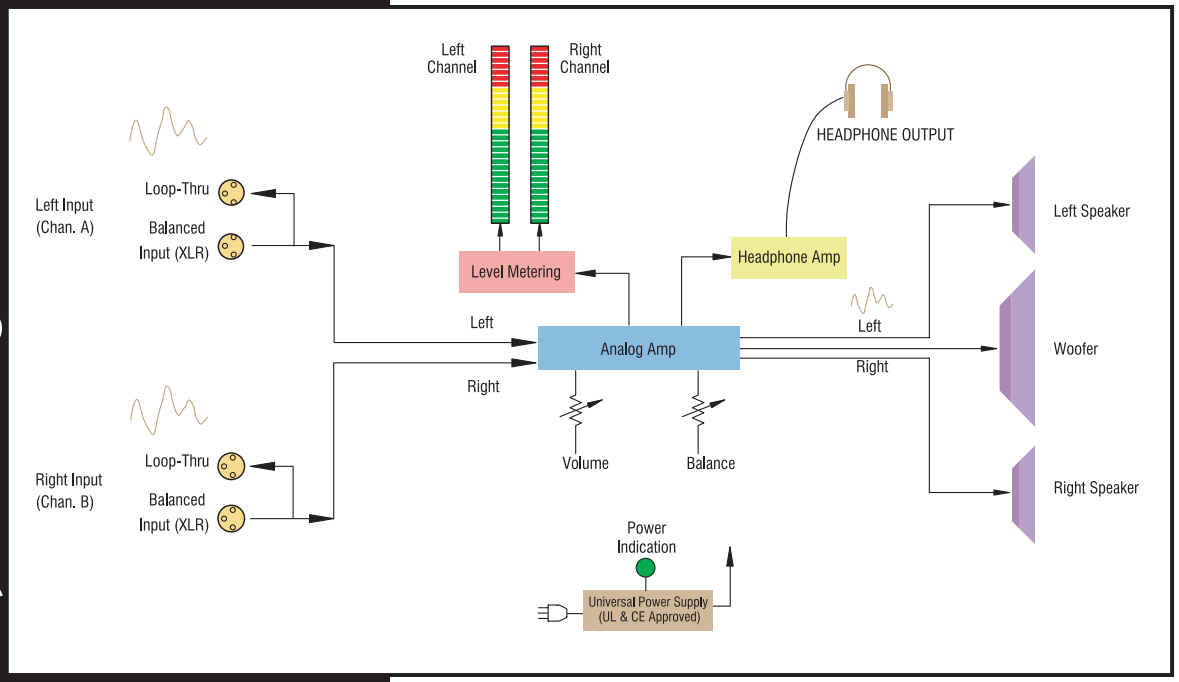
Rear Panel:



System Diagram:



Specifications:

Analog Inputs	2 balanced analog inputs (XLR)
Output	loop-through of balanced analog input (XLR)
Input connectors	XLR terminal connectors
Audio source type	analog
Analog input sampling rate	48 kHz
Analog input impedance	>40 kOhms
Peak acoustic output @ 2 feet	98dB SPL
Frequency response (1/6 octave)	80Hz - 20kHz (±5dB) (-10dB @ 50Hz, 22kHz)
Power output	RMS each side (2 Ohms) - 5W, 7W peak RMS dual WOOFER (4 Ohms) - 11W, 16W peak
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	8% or less worst case frequencies above 180Hz including cabinet resonance, typically <2%
Hum and noise	better than -68dB below full output
Level meters	two 30 segment large segment LED bargraphs
Standard scale	-49 to +16 dB
Midscale resolution	1 dB (Extended VU Scale)
Standard display ballistics	simultaneous VU & PPM (dot over bar)
Selectable display controls	'0' (zero) calibration: 0 dBu, +4 dBu, +6 dBu, +8 dBu floating segment: PPM 3s hold, PPM decay, VU peak 3s hold, VU peak 10s hold
Additional options	alternate scales, color mappings and features such as phase correlation or sum & difference may be specified at the time of ordering, contact us for details
Magnetic shielding	<0.5 gauss any adjacent surface
Chassis dimensions (HxWxD)*	1.75" x 19" x 7.5" (44mm x 483mm x 190.5mm) *not including rear panel input connectors
Power consumption (AVG. MAX.)	30W
Power supply	100 to 240VAC, 50/60Hz universal input, CE & UL approved
Weight (approx.)	9lbs (4kg)

All specifications are subject to improvement

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